

**Family list**

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**1 RANGE HOOD**

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**CLAIMS**

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**[Claim(s)]**

[Claim 1] The top plate attached to the top plate attachment mechanism attached to the construction main part side removable, It is the range hood with which it consisted of a fan motor which is attached to this top plate removable and connected the duct side, and a circumference hood which is attached to the above-mentioned top plate removable, and covers the circumference of a side of the above-mentioned fan motor, and the above-mentioned fan motor is equipped with the filter.

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**DETAILED DESCRIPTION**

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**[Detailed Description of the Invention]**

[0001]

[Industrial Application] This invention relates to a range hood.

[0002]

[Description of the Prior Art] In the main part of a range hood currently beforehand formed in predetermined form, a fan motor is included in one and constituted, and the conventional range hood is carried to a construction site as it is, and is attached and constructed.

[0003]

[Problem to be solved by the invention] However, since a range hood served as remarkable weight, attachment construction in the state where it was incorporated like the above-mentioned conventional technology, and completed was not able to be performed safely and proper, if not based on two or more persons.

[0004] Being carried out separately from construction of kitchen equipment of a range, a sink stand, etc. depending on a construction site plentifully Moreover, a certain sake, After the range, the sink stand, etc. have been attached, the construction space etc. will be restricted. Moreover, since the environment of the circumference of a range hood fitting location, for

example, close attendants, hung and the construction space was restricted by the door etc. even if it was at the time of exchange of a range hood, there was also a possibility of having attached or causing about [ that clearing work is troublesome ] or trouble. Furthermore, with the conventional technology, since the fan motor was included in the main part of a hood by one, there is no exchange of only a fan motor and the fault that it had to be the whole range hood had also been produced.

[0005] The place which this invention is made in view of such a problem that the conventional technology has, and is made into the purpose is in offer of the range hood which an assembly is possible in an arrangement position, and does not receive restriction of a construction space.

[0006]

[Means for solving problem] [ the technical means which this invention made in order to attain the above-mentioned purpose ] The top plate attached to the top plate attachment mechanism attached to the main part removable, It is having constituted from a fan motor which is attached to this top plate removable and connected the duct side, and a circumference hood which is attached to the above-mentioned top plate removable, and covers the circumference of a side of the above-mentioned fan motor, and having equipped the above-mentioned fan motor with the filter.

[0007]

[Working example] Hereafter, if one work example of this invention range hood is explained based on a figure, a range hood A consists of the top plate attachment mechanism 1, a top plate 6, a fan motor 11, and a circumference hood 16, and each is all constituted removable (refer to drawing 1 ).

[0008] [ that the top plate attachment mechanism 1 should just be the structure which is firmly attached to the upper wall surface b of the construction main part B, for example, range X grade, etc. by a well-known fastener means conventionally, attaches a top plate 6 removable, and can be held ] For example, in the example of illustration, make perpendicular one side into the piece 3 of main part attachment, attach in the shape of side L type by making level one side into the piece 4 of top plate attachment, and metal fittings 2 are formed. Over each lateral surface 3a of the piece 3 of main part attachment, and the piece 4 of top plate attachment, and 4a, these metal fittings 2 construct a reinforcing board 5, and are constituted, and the top plate attachment mechanism 1 is constituted by attaching and arranging the attachment metal fittings 2 and 2 in the predetermined interval \*\*\*\*\* main part b.

[0009] In addition, the above-mentioned attachment metal fittings 2 and 2 are not what does not pass for one work example of the top plate attachment mechanism 1 to have been shown, but is limited to this in any way. You may be the composition (illustration abbreviation) which made the structure [ where it is attached to a main part b and a top plate 6 can be held

removable ], for example, main part attachment, side the shape of a plank of predetermined length, and installed the top plate attachment side ahead, respectively from the predetermined part by the side of the main part attachment, and a change of this invention within the limits is possible suitably.

[0010] If a top plate 6 is the ceiling side of the main part a of a range hood constituted with the circumference hood 16 and the example is shown They are prepared by parts 7 and 7 it opens in the outside surface 6a, and stop applying a predetermined interval to it, and [ this credit stop part 7 ] While making one neighborhood 7a by the side of a long side adhere over the direction of the outside surface 6a order The level surface 7c is installed towards the direction of a shorter side from request height starting \*\*\*\*\* 7b from adherence side 7a', and the space formed in the starting side 7b and level surface 7c is constituted as plug space 8 of the above-mentioned attachment metal fittings 2. and the piece 4 of top plate attachment of both these attachment metal fittings 2 and 2 by which a predetermined interval is opened, one more part 7 is similarly formed stop hanging, and the above-mentioned top plate attachment mechanism 1 is constituted between the end face side 8a of that plug space 8 and 8, and 8a -- it is made to do four

[0011] And the above-mentioned top plate 6 is crossed to the outside surface 6a from the inner surface 6b of the middle position. The penetration mouth 9 which makes the exhaust port 13 of a fan motor 11 penetrate is formed, and the attaching part 10 which stops a part of above-mentioned fan motor 11 on the inner surface 6b ahead of this penetration mouth 9 carries out the opening of the stop mouth 10a to the penetration mouth 9 side, and adheres. Moreover, attachment side 6c' of the front board 22 is installed in Front 6c below.

[0012] In addition, although the above-mentioned credit stop part 7 has opened the neighborhood 7d side of another side by the side of a long side wide Limitation is not carried out that it is well [ as what the d / 7 / side also adheres to the outside surface 6a partially, inserts it in the shape of a tunnel, and forms space 8 ] arbitrary, and what is necessary is just the structure which hangs on the top plate attachment mechanism 1 (attachment metal fittings 2) removable, stops in it, and is made to it.

[0013] Moreover, although illustration explanation is given in this example about the above-mentioned top plate attachment mechanism 1 attached to a wall surface b A top plate attachment mechanism may be attached to the ceiling on a range other than the type attached to the above-mentioned wall surface b, for example, for example, is formed in a side form abbreviation U shape, and is good in the upper one side also considering the piece of main part attachment, and bottom one side as a piece of top plate attachment.

[0014] A fan motor 11 may be which thing of an one side suction type or a double-sided suction type, does not receive influence in the range of this invention at all, but is made to correspond suitably, and the request-shaped filters 12 and 12 are attached to the suction

mouths 11a and 11a removable (refer to drawing 3 ). It may not pass over it for one work example to have been shown, but as long as composition of the range hood A of this invention is possible for the illustration \*\*\*\* fan motor 11, it may be which a well-known thing conventionally.

[0015] And the fan motor 11 could project the exhaust port 13 on the above-mentioned top plate 6, and has established the structure which attaches to a top plate 6 removable in total, and is made to hold. [ the attaching part 10 which formed the stop board 14 in the lateral surface 13a of the exhaust port 13 in the example of illustration, and was prepared in the inner surface 6b ahead of / penetration mouth 9 / the above-mentioned top plate 6 ] the other neighborhoods side 14b which insert the one-side side 14a of the stop board 14, and face -- A bolt 15 -- be alike -- it is considered as the structure where a fan motor 11 attaches under a top plate 6, and is held by attaching to the intermediary top plate 6 ( drawing 3 , four references).

[0016] Moreover, the above-mentioned filter 12 is not limited for attachment-and-detachment means, such as the whole filter form and meshes-of-a-net form, at all that what is necessary is just what is attached removable with request means, such as a screw clamp, like the example of illustration.

[0017] The circumference hood 16 is the side peripheral wall of the main part a of a range hood constituted with the above-mentioned top plate 6, by this example, consists of right-and-left both-sides boards 17 and 18 and a front board 22, and is attached to a top plate 6 removable, respectively. In addition, although it cannot touch in this example, it is free whether a backboard is prepared or not and it is chosen suitably.

[0018] If the both-sides boards 17 and 18 are explained first, while starting the arbitrary part of each upper surface 17a and 18a for every predetermined interval, will bend and hook and field 19 -- and 19-- will be formed in an inner direction. And each of that hook side 19 -- [ the upper surface portion of an except ] It bends and installs in an inner direction, the press surface 20 is formed, without rising from the position, and the hook part 19 is hooked on the surface 6a outside the shorter side side of a top plate 6, and where a press surface 20 is contacted on the inner surface 6b, it is attached to a top plate 6 removable with a bolt etc. Moreover, the attachment sides 21 and 21 of the front board 22 are installed in Fronts 17b and 18b in the inner direction, respectively.

[0019] The front board 22 is an attached thing with which the front 6c of the above-mentioned top plate 6 was equipped, with which field 6c' and the fronts 17b and 18b of the right-and-left side boards 17 and 18 were equipped and which attaches, attaches to fields 21 and 21, is held, and constitutes the circumference hood 16. [ the predetermined position of the rear surface 22a of the front board 22 to stop hole 6c"-- first prepared in the predetermined position of attachment side 6c' beforehand ] if the composition is explained Stop nail 23 -- of the request form which inserts in the above-mentioned stop hole 6c", and can be stopped is



prepared where the plug portion 23a is turned below. And the screw holes 25 and 25 are formed like the position which faces the upper part screw holes 24 and 24 of each attachment sides 21 and 21. And protrude the pieces 27 and 27 to be adhered on the position which faces the pieces 26 and 26 of adherence prepared below, and each above-mentioned stop nail 23 -- is made to stop, and other required parts are attached with a screw, a bolt, etc., and the circumference hood 16 is assembled and it completes.

[0020] Here explains an example of assembly construction of the range hood A of this invention.

[0021] First, where one cask of top plate attachment mechanism attached and reinforcing boards 5 and 5 are turned to the method of outside for metal fittings 2 and 2, a predetermined interval is opened in the request part of the wall surface [ in / for the pieces 3 and 3 of main part attachment / the main part B of the range X upper part ] b, it adheres by bolt 28 --, respectively, and the pieces 4 and 4 of top plate attachment are located from a wall surface b in the shape of \*\* to the front.

[0022] And insert the above-mentioned pieces 4 and 4 of top plate attachment in each plug space 8 and 8 of parts 7 and 7 stop hanging on the next, and it is made to slide back, and stops. Therefore, since the top plate 6 is held by the attachment metal fittings 2 and 2 in this state, next, the pieces 4 and 4 of top plate attachment are made to adhere by bolt 29 -- from the surface 6b side in a top plate, respectively (refer to drawing 2 ).

[0023] Next, while inserting the exhaust port 13 of a fan motor 11 in the penetration mouth 9 from the inner surface 6b side and making the attaching part 10 located in the inner surface 6b of the penetration mouth 9 above-mentioned front insert and stop the one-side side 14a of the stop board 14 the other neighborhoods side 14b which face -- A bolt 15 -- be alike -- a fan motor 11 is installed under a top plate 6 by attaching to the intermediary top plate 6, and an exhaust port 13 is connected with a duct 32 ( drawing 3 , four references).

[0024] And next, the front of a top plate 6 to the outside surface 6a top is made to slide back, and 19 -- is hooked and located on the surface 6a outside the shorter side side of a top plate 6, and side boards 17 and 18 are held, where a press surface 20 is contacted on the inner surface 6b, hook part 19 -- of the upper surfaces 17a and 18a, and. And it adheres to a top plate 6 by bolt 33 -- etc. from the inner surface 6b side (refer to drawing 5 ). In addition, as long as a margin is in the transverse direction of an arrangement position, you may also insert in side boards 17 and 18 from a transverse direction.

[0025] and -- the last -- front -- a board -- 22 -- a stop -- a nail -- 23 -- a top plate -- six -- a stop -- a hole -- six -- c -- " -- the upper part -- from -- sliding -- making -- inserting -- stopping -- making . Therefore, since stop maintenance of the front board 22 is carried out in this state, the screw holes 25 and 25 to the upper part screw holes 24 and 24 of each attachment sides 21 and 21 are adhered with bolts 30 and 30 next. And while carrying out position \*\*\*\*\* of the

pieces 27 and 27 which face the pieces 26 and 26 of adherence prepared below to be adhered, it adheres with bolts 31 and 31, the circumference hood 16 is formed, and a range hood A is assembled and completed simultaneously (refer to drawing 6 ). Moreover, the filters 12 and 12 directly attached to a fan motor 11 may be before attachment of a fan motor 11, or may be after assembly completion of the circumference hood 16.

[0026] Moreover, if it is at the time of a maintenance and exchange, and what is necessary is just to take the above-mentioned process and a reverse process and only the front board 22 is removed at the time of the maintenance of a fan motor 11, or exchange, a fan motor 11 can be removed easily.

[0027]

[Effect of the Invention] Write this invention with the above-mentioned composition, and a top plate is first attached to the top plate attachment mechanism attached to the main part side of an arrangement position. And in a construction site, it becomes a top plate with easy and the range hood which can be assembled and completed without receiving restriction of a space by the fan motor and a side board, and attaching to a front board and order removable further. therefore, [ the construction space etc. will already be restricted by kitchen equipment of a range, a sink stand, etc., or ] Moreover, though the construction space was restricted when it hung to close attendants at the time of exchange of a range hood or a maintenance and there was a door etc. Offer of the range hood which an assembly is possible in an arrangement position, and does not receive restriction of a construction space which can be constructed [ easy and ] certainly can be aimed at effectively, without being construction trouble like the conventional range hood.

[0028] Moreover, [ with the conventional technology, since the fan motor was included in the main part of a hood by one, had also produced the fault that exchange of only a fan motor was indispensable and it had to be the whole range hood, but ] Since it is also easily possible to remove a fan motor by removing only a removable front board, for example according to this invention, a use kitchen is very good at the time of exchange of a fan motor, or a maintenance.

[0029] Furthermore, a top plate, a fan motor, a side board and a front board, and since it is removable composition separately, respectively, it is not necessary to carry out an a lot of people important point to construction like before, and construction of at least one person is attained very simply, and he is very excellent also in construction nature.

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[Translation done.]

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**DESCRIPTION OF DRAWINGS**

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**[Brief Description of the Drawings]**

**[Drawing 1]** The vertical section side view showing one work example of this invention range hood

**[Drawing 2]** The exploded perspective view showing the attachment state of the top plate to a top plate attachment mechanism

**[Drawing 3]** The exploded perspective view showing one work example of the fan motor which constitutes this invention range hood

**[Drawing 4]** The vertical section side view showing a part of attachment state to the top plate of a fan motor

**[Drawing 5]** The exploded perspective view showing the attachment state of the side board to a top plate

**[Drawing 6]** The exploded perspective view showing the attachment state of the front board to a top plate

**[Explanations of letters or numerals]**

**A:** Range hood

- 1: Top plate attachment mechanism
- 2: Attachment metal fittings
- 3: The piece of main part attachment
- 4: The piece of top plate attachment
- 6: Top plate
- 7: It is a part stop hanging.
- 10: Attaching part
- 11: Fan motor
- 12: Filter
- 14: Stop board



16: Circumference hood

17, 18: Side board

22: Front board

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[Translation done.]